

Brown and Caldwell BORING LOG

Proj	ect Na	me: _Yer	ington Second Step Hydrogeologi	ic Framework Assessment				Pı	roject Number:	132025			
Soil 1	Boring	: M	fonitoring Well: X Piezomet	ter: Boring/We	II Nu	ımbe	er:B	/W-22		Shee	t <u>1</u> c	of 11	
Bori	ng Loc	cation: One	e mile south of the junction of Luzier	Lane and Locust Lane			rthing			Easting:			
Drill	ing Co	ontractor:	Boart Longyear	Driller: D. Reed		Gro	ound S	urface	vation: feet and Elevation: fe	eet amsl			
Drill	ing Eq	uipment: (GP24-300RS	Borehole Diameter:6-inche	:s	Dat	te Star	ted: 7/	14/07	Date Finished:	7/18/07		
Drill	ing Mo	ethod: Son	nic	Drilling Fluid: Water		Completed Water Depth: 197 fbgs Depth: fbmp							
Sam	pling N	Method:	Core Barrel							STRUCTION			
Well	Seal:	Bentonite	and Cement			Typ of V	oe and Well C	Diame asing:	eter 2-inch Sch	nedule 80 PVC			
Logg	ged By	: R. Banda	a and C. Strauss			Slo	t Size:	0.010	inch Filter M	aterial: #10-20 S	ilica San	ıd	
Depth (ft)	Elevation (ft)	USCS Group Symbol	Material De	escription	Sample Name	Sample Location	Lithology	Well Construction		Remarks			
-		SM	Silty Sand (0 - 5.5) Dry, loose, no odor. Primar with ~10% gravel to 15 mm a The sand and gravel are sub The fines are nonplastic, hav have a weak reaction to HCI.	and ~30% silt and clay. nangular to subrounded. ne a light brown color, and					Method D-246 grain-size det based on the System. Horizontal Su Nevada State zone, in feet. Sharp contact	f drilled cuttings ba 88 (the visual-mar erminations and n Unified Soil Class rvey data is expre Plane system, Ne ts indicated by sol ontacts indicated b	nual proce omencial ification essed in the evada We	edure), ture ne est	
5-		SW-SM	Well-Graded Sand with Sil Dry, loose, no odor. Primar with ~10% gravel to 15 mm a The sand and gravel are sub The fines are nonplastic, and HCl.	rily medium to fine sand and ~15% silt and clay. angular to subrounded.					All depths are otherwise. WELL DESIG PVC Stickup: Cement - Ber Bentonite Chi No. 60 Silica #10-20 Silica 2-inch Nomins Slotted Scree Native Collap	below land surface	ee unless 66 feet eet 172 - 19 /C 0.010	s stated	
10-		CL	Sandy Lean Clay (9.5 - 11) Dry, dense, no odor. Prima gravel to 10 mm and ~30% in sand. The sand and gravel a subrounded. The fines have toughness, and have a strong Silty Sand (11 - 14) Dry, loose, no odor. Primar with ~10% gravel to 20 mm at The sand and gravel are ang fines are nonplastic, and do not seem to the sand and gravel are ang fines are nonplastic, and do not seem to the sand and gravel are ang fines are nonplastic, and do not seem to the sand and gravel are ang fines are nonplastic, and do not seem to the sand and gravel are ang fines are nonplastic, and do not seem to the sand and gravel are ang fines are nonplastic, and do not seem to the sand and gravel are ang fines are nonplastic, and do not seem to the sand and gravel are ang fines are nonplastic, and do not seem to the sand and gravel are as the sand and gravel are ang fines are nonplastic, and do not sand and gravel are as the sand and gravel are ang fines are nonplastic.	arily silt and clay with ~5% medium to fine grained are subangular to blow plasticity and g reaction to HCI. rily medium to fine sand and ~30% silt and clay.						ells at this location als for paired wells lepths.		eled at	
-		SM	Silty Sand with Gravel (14 Dry, loose, no odor. Primar	- 16) rily medium to fine sand	+								

Project Name: Yerington Second Step Hydrogeologic Framework Assessment Project Number: 132025										
Soil I	Boring:	.: M	fonitoring Well: X Piezometer: Boring/Well	ll Nur	mbe	r: _B	/W-22	Sheet <u>2</u> of <u>11</u>		
Depth (ft)	Elevation (ft)	USCS Group Symbol	Material Description	Sample Name	Sample Location	Lithology	Well Construction	Remarks		
			sand. The gravel is angular to subangular and the sand is subangular to subrounded. The fines are nonplastic, and do not react to HCl.			a 0 0				
20-		SW-SM	Well-Graded Sand with Silt and Gravel (16 - 22.5) Dry, dense, no odor. Primarily medium to fine sand with ~15% gravel to 25 mm and ~15% silt and clay. The sand and gravel are angular to subangular. The fines are nonplastic, have a reddish brown color, and have a strong reaction to HCl.							
-		SM SW	Silty Sand with Gravel (22.5 - 23) Dry, dense, no odor. Primarily medium to fine sand with ~15% gravel to 20 mm and ~30% silt and clay. The sand and gravel are angular to subangular. The fines are nonplastic, have a brown color, and have a strong reaction to HCI.							
25-	,	SW-SM	Well-Graded Sand (23 - 25) Dry, dense, no odor. Primarily medium to fine sand with ~10% gravel to 15 mm and ~10% silt and clay. The sand and gravel are angular to subangular. The fines are nonplastic, have a brown color, and have no reaction to a weak reaction to HCI.							
_			Well-Graded Sand with Silt and Gravel (25 - 27.5) Dry, dense, no odor. Primarily medium to fine sand with ~15% gravel to 50 mm and ~15% silt and clay. The sand and gravel are angular to subangular. The fines are nonplastic, have a reddish brown color, and do not react to HCI.							
_		SW-SM	Volcanic Tuff (27.5 - 28) Dry, dense, no odor. The fines are nonplastic, and have a strong reaction to HCl. Well-Graded Sand with Silt and Gravel (28 - 33.5)							
30-			Dry, dense, no odor. Primarily medium to fine sand with ~15% gravel to 20 mm and ~25% silt and clay. The sand and gravel are angular to subangular. The fines are nonplastic, and have a strong reaction to HCl.							
		SM	Silty Sand (33.5 - 37)	1						

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Soil I	Boring:	: M	fonitoring Well: X Piezometer: Boring/Wel	l Nur	nbe	r: _B	/W-22	Sheet <u>3</u> of <u>11</u>
				_		I		
Depth (ft)	Elevation (ft)	USCS Group Symbol	Material Description	Sample Name	Sample Location	Lithology	Well Construction	Remarks
35-			Dry, dense, no odor. Primarily medium to fine sand with ~5% gravel to 10 mm and ~40% silt and clay. The sand and gravel are subangular to subrounded. The fines are nonplastic, and do not react to HCl.					
_		SM	Silty Sand with Gravel (37 - 43) Dry, dense, no odor. Primarily medium to fine sand with ~15% gravel to 20 mm and ~30% silt and clay. The sand and gravel are angular to subangular. The fines are nonplastic, and have a weak to strong reaction to HCI.					
40-								
- -		CL	Sandy Lean Clay with Gravel (43 - 45) Dry, dense, no odor. Primarily silt and clay with ~15% gravel to 15 mm and ~30% medium to fine grained sand. The sand and gravel are subangular to subrounded. The fines have low plasticity and toughness, and have a weak to strong reaction to HCI.					
45 — - -		SW-SM	Well-Graded Sand with Silt and Gravel (45 - 50.5) Dry, very dense, no odor. Primarily medium to fine sand with ~15% gravel to 15 mm and ~15% silt and clay. The sand and gravel are angular to subangular. The fines are nonplastic, and have a weak to strong reaction to HCl.					
50-		SM	Silty Sand (50.5 - 52) Dry to moist, dense, no odor. Primarily silt and clay with ~5% gravel to 15 mm and ~40% medium to fine grained sand. The sand and gravel are angular to subangular. The fines are nonplastic, and have a strong reaction to HCI.	_				
		SW-SM	Well-Graded Sand with Silt and Gravel (52 - 58) Dry, very dense, no odor. Primarily medium to fine					

Proj	ect Na	me:Yer	ington Second Step Hydrogeologic Framework Assessment		_		Pro	oject Number:132025	
Soil Boring: Monitoring Well: Monitoring									
Depth (ff)	Elevation (ft)	USCS Group Symbol	Material Description	Sample Name	Sample Location	Lithology	Well Construction	Remarks	
55 -		1	sand with ~15% gravel to 15 mm and ~15% silt and clay. The sand and gravel are angular to subangular. The fines are nonplastic, and have a weak to strong reaction to HCl.						
-		SW-SM	Well-Graded Sand with Silt (58 - 60) Dry, dense, no odor. Primarily medium to fine sand with ~10% gravel to 15 mm and ~20% silt and clay. The sand and gravel are angular to subangular. The fines are nonplastic, and have a strong reaction to HCl.						
- 60		SW-SM	Well-Graded Sand with Silt (60 - 63) Dry, very dense, no odor. Primarily medium to fine sand with ~10% gravel to 20 mm and ~30% silt and clay. The sand and gravel are angular to subangular. The fines are nonplastic, and have a strong reaction to HCI.	- !					
- 65		SM	Silty Sand (63 - 66) Dry, dense, no odor. Primarily medium to fine sand with ~5% gravel to 10 mm and ~40% silt and clay. The sand and gravel are angular to subangular. The fines are nonplastic, and have a strong reaction to HCI.						
-	-	SM	Silty Sand (66 - 68.5) Dry, dense, no odor. Primarily medium to fine sand with ~5% gravel to 20 mm and ~20% silt and clay. The sand and gravel are subangular to subrounded. The fines are nonplastic, and have a strong reaction to HCI.						
70- -		SM	Silty Sand (68.5 - 73) Dry, dense, no odor. Primarily medium to fine sand with ~5% gravel to 10 mm and ~30% silt and clay. The sand and gravel are angular to subangular. The fines are nonplastic, and have a strong reaction to HCI.						

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Depth (ft)	Elevation (ft)	USCS Group Symbol	Material Description	Sample Name	Sample Location	Lithology	Well Construction	Remarks	
 75 		SM	Silty Sand (73 - 74) Dry, very dense, no odor. Primarily silt and clay with ~5% gravel to 20 mm and ~30% medium to fine sand. The sand and gravel are angular to subangular. The fines are nonplastic, and have a strong reaction to HCl. Silty Sand with Gravel (74 - 82.5) Dry, dense, no odor. Primarily medium to fine sand with ~20% gravel to 20 mm and ~30% silt and clay. The sand and gravel are angular to subangular. The fines are nonplastic, and have no reaction to a weak reaction to HCl.						
80-									
-		SM	Silty Sand (82.5 - 84) Dry, very dense, no odor. Primarily medium to fine sand with ~5% gravel to 20 mm and ~40% silt and clay. The sand and gravel are angular to subangular. The fines are nonplastic, and have a strong reaction to HCI.						
85-		SM	Silty Sand with Gravel (84 - 86.5) Dry, very dense, no odor. Primarily medium to fine sand with ~15% gravel to 25 mm and ~20% silt and clay. The gravel is angular to subangular and the sand is subangular to subrounded. The fines are nonplastic, and have a strong reaction to HCI.						
-		SM	Silty Sand (86.5 - 88) Dry, very dense, no odor. Primarily silt and clay with ~10% gravel to 15 mm and ~30% medium to fine grained sand. The sand and gravel are angular to subangular. The fines are nonplastic, and have a strong reaction to HCI.						
-		SW-SM	Well-Graded Sand with Silt (88 - 89.5) Dry, very dense, no odor. Primarily medium to fine sand with ~5% gravel to 30 mm and ~20% silt and clay. The sand and gravel are subangular to subrounded. The fines are nonplastic, and have a strong reaction to HCI.						
90-			Silty Sand (89.5 - 91) Dry, very dense, no odor. Primarily medium to fine sand with ~10% gravel to 15 mm and ~30% silt and						

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Soil	Boring	;: N	fonitoring Well: X Piezometer: Boring/Well	l Nur	nbe	r :B	/W-22	Sheet <u>6</u> of <u>11</u>
Depth (ft)	Elevation (ft)	USCS Group Symbol	Material Description	Sample Name	Sample Location	Lithology	Well	Remarks
		SW	clay. The sand and gravel are angular to subangular. The fines are nonplastic, and have a strong reaction to HCl.					
-	-	SM	Well-Graded Sand (91 - 93.5) Dry, very dense, no odor. Primarily medium to fine sand with ~5% gravel to 15 mm and 10% silt and clay. The sand and gravel are angular to subangular. The fines are nonplastic, and have a weak reaction to HCl. Silty Sand (93.5 - 96) Dry, very dense, no odor. Primarily medium to fine	-				
95-			sand with ~10% gravel to 15 mm and ~30% silt and clay. The sand and gravel are subangular to subrounded. The fines are nonplastic, and have a strong reaction to HCI.					
		SM	Silty Sand with Gravel (96 - 97) Dry, very dense, no odor. Primarily medium to fine sand with ~20% gravel to 20 mm and ~20% silt and					
-		SW	clay. The sand and gravel are angular to subangular. The fines are nonplastic, and have a strong reaction to HCl.					
- 100 – -			Well-Graded Sand with Gravel (97 - 106) Dry, very dense, no odor. Primarily medium to fine sand with ~15% gravel to 25 mm and ~10% silt and clay. The sand and gravel are angular to subangular. The fines are nonplastic, and have a weak to strong reaction to HCl.					
105 –	-							
-	_	SM	Silty Sand (106 - 107.5) Dry, very dense, no odor. Primarily medium to fine sand with ~10% gravel to 15 mm and ~30% silt and clay. The gravel is angular to subangular and the sand is subangular to subrounded. The fines are nonplastic, and have a weak to strong reaction to HCI.					
-		SM	Silty Sand (107.5 - 109) Dry, very dense, no odor. Primarily medium to fine sand with ~5% gravel to 15 mm and ~40% silt and clay. The sand and gravel are subangular to subrounded.					
		SM	The fines are nonplastic, and have a strong reaction to HCl. Silty Sand (109 - 111)					

٠	ect Na Boring	_	onitoring Well: Piezometer: Boring/Well	Nur	— nbe	r: <u>B</u>	Pro /W-22	Sheet of1
Depth (ft)	Elevation (ft)	USCS Group Symbol	Material Description	Sample Name	Sample Location	Lithology	Well Construction	Remarks
-		SW	Dry, very dense, no odor. Primarily medium to fine sand with ~10% gravel to 15 mm and ~30% silt and clay. The gravel is angular to subangular and the sand is subangular to subrounded. The fines are nonplastic, and have a weak to strong reaction to HCI. Well-Graded Sand with Gravel (111 - 114.5) Dry, dense, no odor. Primarily medium to fine sand with ~15% gravel to 25 mm and ~10% silt and clay. The sand and gravel are angular to subangular. The fines are nonplastic, and have a weak to strong reaction to HCI.					
115- -	-	CL	Gravelly Lean Clay (114.5 - 116) Dry, very dense, no odor. Primarily silt and clay with ~20% gravel to 25 mm and ~20% coarse to fine grained sand. The sand and gravel are angular to subangular. The fines have low plasticity and toughness, and have a weak to strong reaction to HCI.					
-	-	SW	Well-Graded Sand with Gravel (116 - 118) Dry to moist, dense, no odor. Primarily medium to fine sand with ~25% gravel to 25 mm and ~10% silt and clay. The sand and gravel are angular to subangular. The fines are nonplastic, and have a weak to strong reaction to HCI.					
-	_	SM SW-SM	Silty Sand (118 - 119) Dry, very dense, no odor. Primarily medium to fine sand with ~5% gravel to 15 mm and ~30% silt and clay. The sand and gravel are angular to subangular. The fines are nonplastic, and have a strong reaction to HCl.					
120-	_	SC	Well-Graded Sand with Silt (119 - 121) Dry, very dense, no odor. Primarily medium to fine sand with ~10% gravel to 30 mm and ~15% silt and clay. The gravel is angular to subangular and the sand is subangular to subrounded. The fines are nonplastic, and have a weak reaction to HCI.					
-	_	SW	Clayey Sand (121 - 122) Dry, very dense, no odor. Primarily medium to fine sand with ~5% gravel to 10 mm and ~40% silt and clay The sand and gravel are angular to subangular. The fines are nonplastic, and do not react to HCI.					
-			Well-Graded Sand (122 - 124.5) Dry, dense, no odor. Primarily medium to fine sand with ~10% gravel to 15 mm and ~10% silt and clay. The sand and gravel are subangular to subrounded. The fines are nonplastic, and do not react to HCl.					
125-	_	SW	Well-Graded Sand with Gravel (124.5 - 125.5) Dry to moist, dense, no odor. Primarily medium to fine sand with ~30% gravel to 20 mm and ~15% silt ¬ and clay. The sand and gravel are angular to					
-	_	CL	subangular. The fines are nonplastic, and have a weak reaction to HCl. Sandy Lean Clay with Gravel (125.5 - 127)					
-	-	SM	Dry to moist, very dense, no odor. Primarilý silt and clay with ~25% gravel to 15 mm and ~20% medium to fine grained sand. The sand and gravel are angular to subangular. The fines are nonplastic, and do not react to HCl.					
			Silty Sand (127 - 131) Dry, very dense, no odor. Primarily medium to fine sand with ~10% gravel to 15 mm and ~30% silt and					

Proj	ect Na	me: Yer	angton Second Step Hydrogeologic Framework Assessment				Pro	oject Number: <u>132025</u>
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Depth (ft)	Elevation (ft)	USCS Group Symbol	Material Description	Sample Name	Sample Location	Lithology	Well Construction	Remarks
130-			clay. The gravel is angular to subangular and the sand is subangular to subrounded. The fines are nonplastic, and do not react to HCl.					
- - 135 – -		SM SW-SM	Silty Sand (131 - 132) Dry, very dense, no odor. Primarily medium to fine sand with ~5% gravel to 15 mm and ~40% silt and clay. The sand and gravel are subangular to subrounded. The fines are nonplastic, and do not react to HCl. Well-Graded Sand with Silt and Gravel (132 - 139.5) Dry, very dense, no odor. Primarily medium to fine sand with ~20% gravel to 20 mm and ~20% silt and clay. The sand and gravel are angular to subangular. The fines are nonplastic, and have no reaction to a weak reaction to HCl.	-				
- 140 — -		SW	Well-Graded Sand (139.5 - 144) Dry, dense, no odor. Primarily medium to fine sand with ~5% gravel to 15 mm and ~10% silt and clay. The sand and gravel are subangular to subrounded. The fines are nonplastic, and have a strong reaction to HCI.					
- 145 <i>-</i> -		SW-SM	Well-Graded Sand with Silt (144 - 146.5) Dry, dense, no odor. Primarily medium to fine sand with ~10% gravel to 10 mm and ~30% silt and clay. The sand and gravel are angular to subangular. The fines are nonplastic, and have no reaction to a weak reaction to HCl.	_				
-		SM	Silty Sand (146.5 - 149) Dry, very dense, no odor. Primarily medium to fine sand with ~10% gravel to 20 mm and ~40% silt and clay. The gravel is angular to subangular and the sand is subangular to subrounded. The fines are nonplastic, and have no reaction to a weak reaction to HCI.					

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Depth (ft)	Elevation (ft)	USCS Group Symbol	Material Description	Sample Name	Sample Location	Lithology	Well Construction	Remarks			
150-	_	CL	Sandy Lean Clay (149 - 150) Dry, very dense, no odor. Primarily silt and clay with ~10% gravel to 10 mm and ~20% medium to fine grained sand. The gravel is angular to subangular and								
-		SM	the sand is subangular to subrounded. The fines have low plasticity and toughness, and have a strong reaction to HCl.								
-			Silty Sand (150 - 152) Moist, very dense, no odor. Primarily medium to fine sand with ~5% gravel to 10 mm and ~30% silt and clay.			,,,,,,					
		CL	The sand and gravel are subangular to subrounded. The fines are nonplastic, and have a strong reaction to HCl.								
			Sandy Lean Clay (152 - 155.5) Dry, very dense, no odor. Primarily silt and clay with ~10% gravel to 10 mm and ~25% medium to fine grained sand. The gravel is angular to subangular and the sand is subangular to subrounded. The fines have low to medium plasticity with low toughness, and have a strong reaction to HCI.								
155-			-		٠						
-	_	SW-SM	Well-Graded Sand with Silt and Gravel (155.5 - 156) Saturated, dense, no odor. Primarily coarse to fine sand with ~20% gravel to 10 mm and ~15% silt and clay. The sand and gravel are angular to subangular. The fines are nonplastic, and have no reaction to a weak reaction to HCI.	155-160							
	_		Silty Sand with Gravel (156 - 159.5) Saturated, dense, no odor. Primarily medium to fine sand with ~15% gravel to 15 mm and ~25% silt and clay. The sand and gravel are angular to subangular. The fines are nonplastic, and have a strong reaction to HCI.	B/W-22@155-160							
160-		CL	Sandy Lean Clay (159.5 - 160) Dry, very dense, no odor. Primarily silt and clay with		٠						
-	_	CL	~5% gravel to 25 mm and ~10%medium to fine grained sand. The sand and gravel are angular to subangular. The fines have low plasticity and toughness, and do not react to HCl.								
	-	CL	Sandy Lean Clay (160 - 162) Dry to moist, very dense, no odor. Primarily silt and clay with ~5% gravel to 5 mm and ~30% medium to fine grained sand. The sand and gravel are subangular to subrounded. The fines have low plasticity and toughness, and do not react to HCI.								
-	_		Sandy Lean Clay (162 - 180) Dry to moist, very dense, no odor. Primarily silt and clay with ~10% gravel to 15 mm and ~30% coarse to fine grained sand. The sand and gravel are subangular to subrounded. The fines have low plasticity and								
165 -	_		toughness, and do not react to HCI.								

Proj	Project Name:Yerington Second Step Hydrogeologic Framework Assessment Project Number:132025										
Soil 1	Boring	;: M	Ionitoring Well: $\overline{\mathbb{X}}$	Piezometer:	Boring/Well	Nun	nber	r: <u>B</u> /	W-22		Sheet <u>10</u> of <u>11</u>
Depth (ft)	Elevation (ft)	USCS Group Symbol	Ма	terial Description		Sample Name	Sample Location	Lithology	Well Construction	Remarks	
- 170 — -	-										
- 175 — -											
- 180 – - -		CL	~5% gravel to 15 n grained sand. The subrounded. The f	(180 - 187) I, no odor. Primarily silt a nm and ~25% medium to sand and gravel are subtines have low to medium, and have a weak reaction.	o fine angular to o plasticity						
185-	-										

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		<u> </u>							
Depth (ft)	Elevation (ft)	USCS Group Symbol	Material Description	Sample Name	Sample Location	Lithology	Well Construction	Remarks	
-		SC	Clayey Sand (187 - 189.5) Moist, very dense, no odor. Primarily silt and clay with ~5% gravel to 35 mm and 25% medium to fine grained sand. The sand and gravel are subangular to subrounded. The fines have low plasticity and toughness, and do not react to HCl.						
100		SM	Silty Sand (189.5 - 190)						
190-		CL	Moist, very dense, no odor. Primarily medium to fine sand with ~10% gravel to 20 mm and ~40% silt and clay. The sand and gravel are subangular to subrounded. The fines are nonplastic, and do not react to HCl.						
-			Sandy Lean Clay (190 - 194.5) Dry, very dense, no odor. Primarily silt and clay with ~10% gravel to 20 mm and ~20% medium to fine grained sand. The sand and gravel are subangular to subrounded. The fines have low plasticity and toughness, and do not react to HCl.						
195 <i>-</i> -		CL	Sandy Lean Clay (194.5 - 197) Dry, very dense, no odor. Primarily silt and clay with ~5% gravel to 20 mm and ~25% coarse to fine grained sand. The sand and gravel are subangular to subrounded. The fines have low to medium plasticity with low toughness, and do not react to HCI.						
-			Bottom of Borehole at 197 feet below ground surface.						